

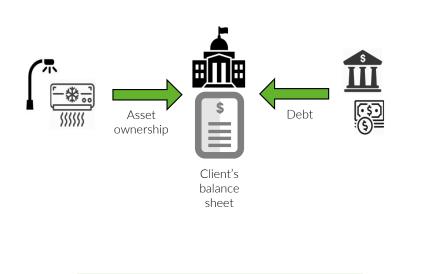
# Lessons learnt from developing ESCO projects performance guarantee & MESA models

Third Energy Efficiency Virtual Workshop Scaling up Super ESCOs and ESCOs in Africa

> 14 September 2021 Victor Minguez – United for Efficiency

# Many ESCO models

# 2 Main groups (from asset ownership)

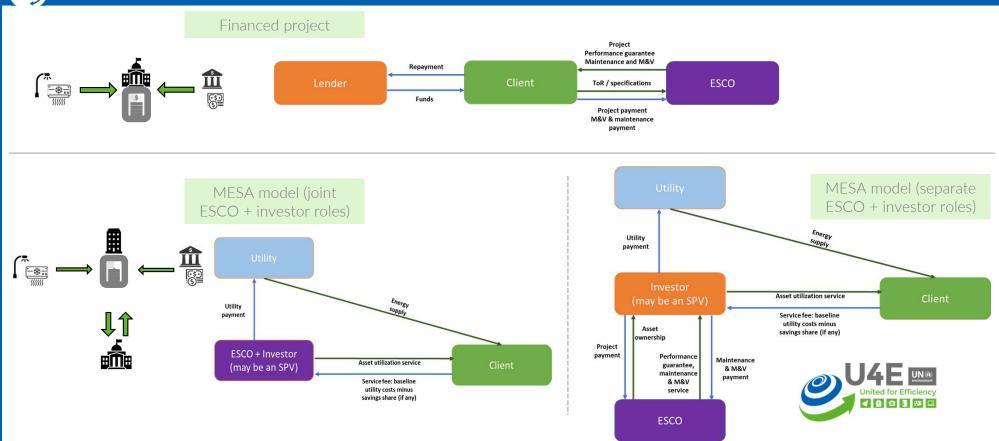


Traditional ownership



# Many ESCO models

### (🕸) An example of each



# Lesson



# Few people are interested in Energy Efficiency: Don't sell ESCO projects from that angle

- Executive management focuses on providing value to clients (private) / residents (public):
- E.g. Hotel manager wants to attract new clients (comfortable rooms, fancy new lobby, etc...).
  Production manager wants to improve product quantity/quality, avoid shutdowns...
  Municipal manager wants to be reappointed ©
- Financial management looks after financial stability of organization: debt issuing is limited.
- Maintenance people may perceive the project as a risk to their job / uncover "skeletons" hidden in the infrastructure

Be creative, keep in mind the incentives of everyone in the organization.



# The contract is the only thing that holds over time. People will change.



#### Include in the contract:

- Baseline, baseline, baseline: (consumption, opening hours, users, list of assets, weather bins, setpoints, lux levels etc.)
- Define the scope of work, asset by asset, separating client and contractor responsibilities.
- Implementation period.
- Guarantee types, baseline adjustments, etc.
- Monitoring, Reporting & Verification (MRV) activities
- Maintenance services.
- Specify quality of fuel / consumables that the client will buy.



## Not every model works for every case



#### For a MESA project to work:

- Large projects with +15% total energy savings.
- Technically & financially savvy ESCOs are needed.
- ESCO must have good control on facility (e.g. facility manager): maintenance, keep track of changes, etc
- Public clients are restricted by procurement and financial management regulations
- Setup agile payment processes (not fun if utility cuts off energy supply because of payment delays)

#### For an energy performance model to work:

- Harder to account off-balance sheet (investor needed), or client obtains funding.
- Private clients will want short paybacks (3-4 years)
- Public clients are restricted by procurement and financial management regulations



# A good MRV is like a good insurance



- Everybody wants it until they have to pay for it.
- When you need it, you'll regret not having a better one.
- You'll need it more often than you think/want.
- Risk of "over-insuring": IPMVP type C is expensive and is not adequate for most projects.
- Only certain events are insured: ESCO has to comply with obligations, but should monitor to avoid abuse.



## Some technical lessons



- Don't trust the plans/asset lists, etc. Let the ESCO check by themselves before bidding.
- Lighting changes are the first thing people notice (for good and bad).
- Ventilation is expensive: many good projects exist.
- Virtually all chilled water plants can be optimized.
- Energy is still too cheap.
- If a project is designed creatively (see lesson 1), payback period becomes "irrelevant".

ESCOs are a people's business: good processes + inadequate people = poor results

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